

Docket No. 14071801

Dispatch No. 059666

Dispatch date: February 25, 2003

Notification of Reason for Refusal

Patent Application No.	Patent Application No. 2002-209494
Drafting Date	02/19/2003
Examiner of JPO	Motoki TAKADA 9821 3C00
Representative / Applicant	Hisayuki TARUMOTO
Applied Provision	Patent Law Section 29(2)

This application should be refused for the reason mentioned below. If the applicant has any argument against the reason, such argument should be submitted within 60 days from the date on which this notification was dispatched.

Reason

The inventions in the claims listed below of the subject application should not be granted a patent under the provision of Patent Law Section 29(2) since it could have easily been made by persons who have common knowledge in the technical field to which the inventions pertain, on the basis of the inventions described in the publications listed below which were distributed in Japan or foreign countries prior to the filing of the subject application or the inventions made available to the public via telecommunication lines.

Note (The list of cited references etc. is shown below.)

- Claims 1-3, 5 and 6
- Cited references etc. 1-4
- Remark:

In Cited References 1 and 2, there is described a driving device of a ring saw having a ring saw main body formed with a number of teeth provided with cutting edges along the outer circumference thereof, and a rotary body arranged so that the outer circumference side are meshed with said teeth to rotate and drive the ring saw main body.

In general, it is the known art, as described also in Cited References 3 and 4, to mesh an endless chain with teeth provided on the outer circumference of a body to be driven to rotate and drive the endless chain. In the invention described in either one of Cited References 1 and 2, employing the above-described known endless chain as the rotary body for rotating and driving the ring saw main body may be accomplished readily by those skilled in the art.

Further, enabling adjustment of the tension of a chain by changing a position of the rotary body is a mere common use means.

- Claims 4 and 7
- Cited references etc. 1-6
- Remark:

The point that in the driving device of a ring saw, providing one or plural internal support bodies supporting the ring saw main body from inside is the known art as described also in Cited References 5 and 6.

In the driving device of a ring saw, detachably providing the ring saw main body on the driving device is a common use means, and for the purpose, constituting a position of the internal support body changeably is the matter that should be done naturally by those skilled in the art.

- Claims 8 and 9
- Cited references etc. 1-6
- Remark:

In the driving device of a ring saw, the point that a pair of guide rollers are provided on both sides of the side of the ring saw main body is the known art as described also in Cited Reference 5.

- Claim 10
- Cited references etc. 1-6
- Remark:

The provision of the driving device of a ring saw described in either Cited Reference 1 or 2 on the extreme end of an arm of a known shovel type excavator involves no particular difficulty.

The list of cited references etc.

1. Japanese Examined Patent Publication No. 48-021558
2. Microfilm of Japanese Utility Model Application No. 50-171442 (Japanese Unexamined Utility Model Publication No. 52-082286)
3. Japanese Unexamined Patent Publication No. 07-024634
4. Japanese Unexamined Patent Publication No. 04-193414
5. Japanese Unexamined Patent Publication No. 11-048033
6. Japanese Examined Patent Publication No. 07-080010

Record of the result of the prior art search

- Technical fields to be searched Int. Cl(7) B23D 47/12
B24B 27/06
B28D 1/00

- Prior art reference
Japanese Unexamined Patent Publication No. 07-088008

This record is not a component of the reason for refusal.

When there is any inquiry with respect to the present Notification of Reason for Refusal, or when you desire to have an interview on the instant Application, please contact us in the following:

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